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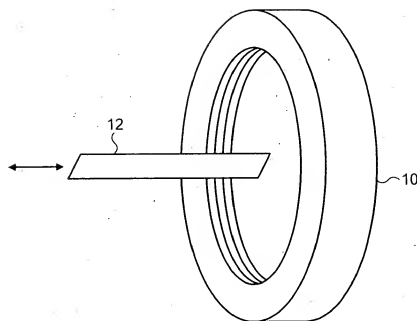


FIG. 1

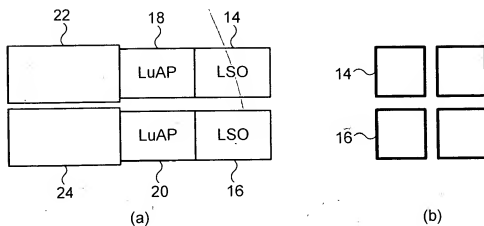


FIG. 2



Material	Density $\rho, \text{g/cm}^3$	Emission maximum λ, nm	Light yield, photons/ MeV	Decay time τ, ns	Photoelectric absorption coefficient @ 511 keV 1/cm
Lu_2SiO_5 : Ce (LSO)	7.4	420	27,000	40	0.30
LuAlO_3 : Ce (LuAP)	8.34	380	9,600	11 (60%)	0.31
Gd_2SiO_5 : Ce (GSO)	6.7	440	8,000/1,000	60 for fast component 600 for slow component	0.18

FIG. 3

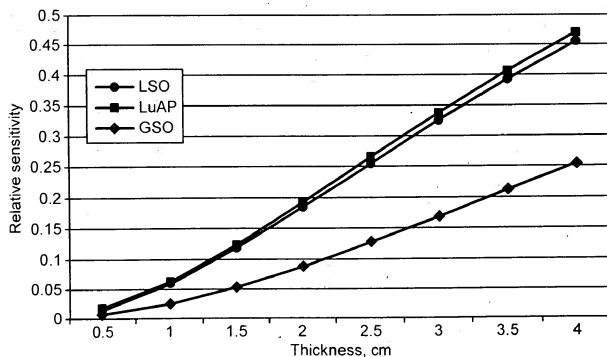


FIG. 4

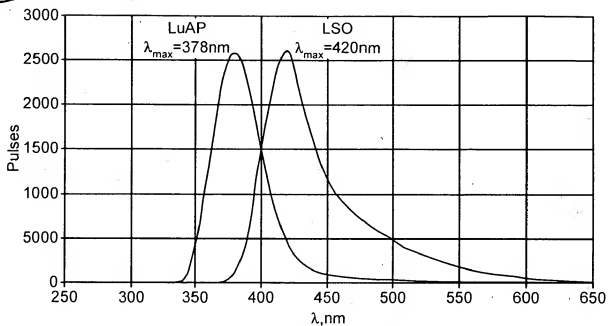


FIG. 5

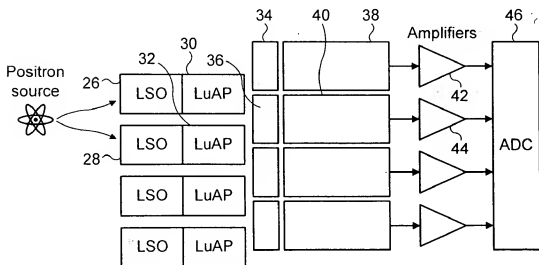


FIG. 6